

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P269104

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T2R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12092.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

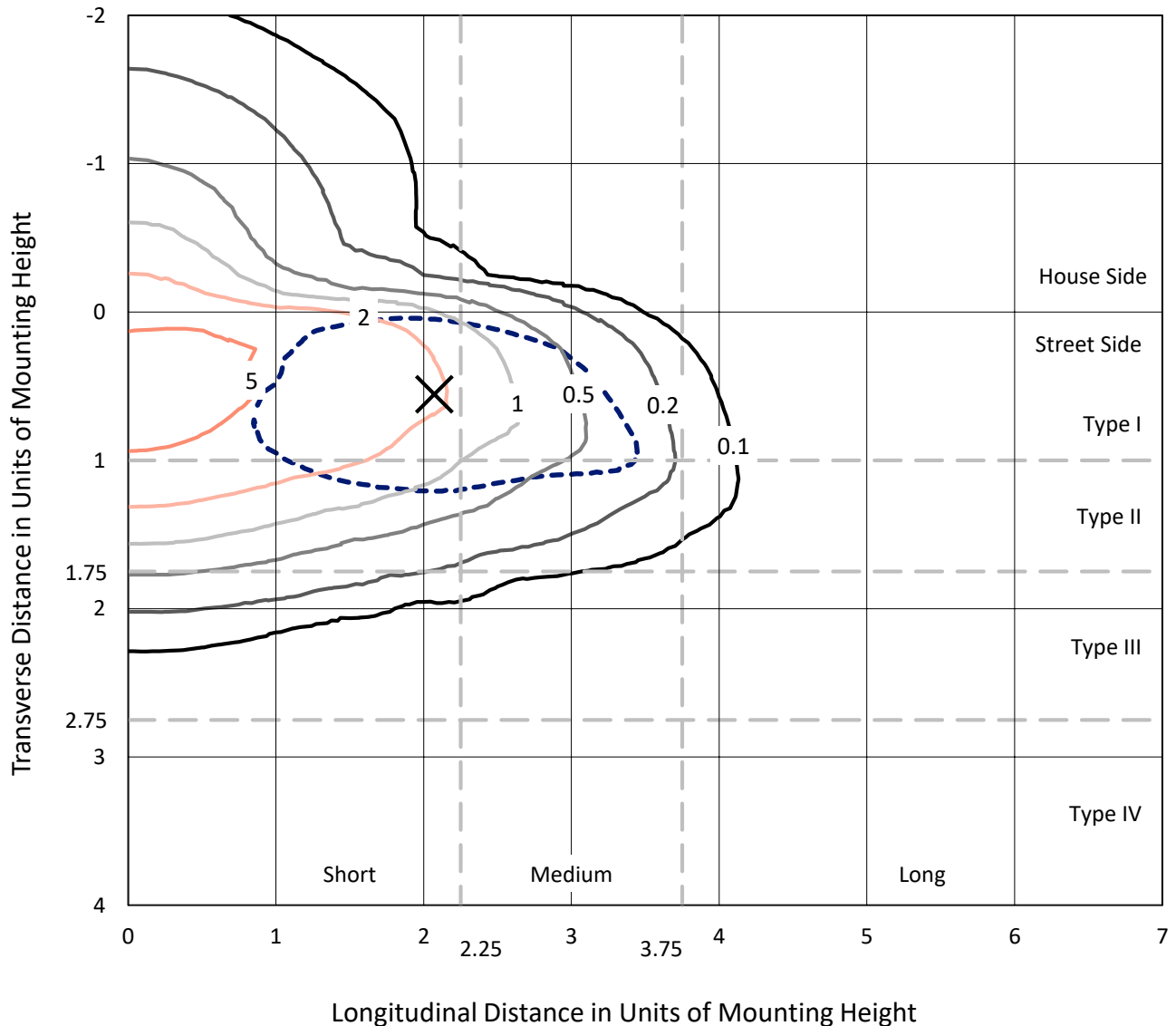


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Iso-Footcandle Lines of Horizontal Illumination

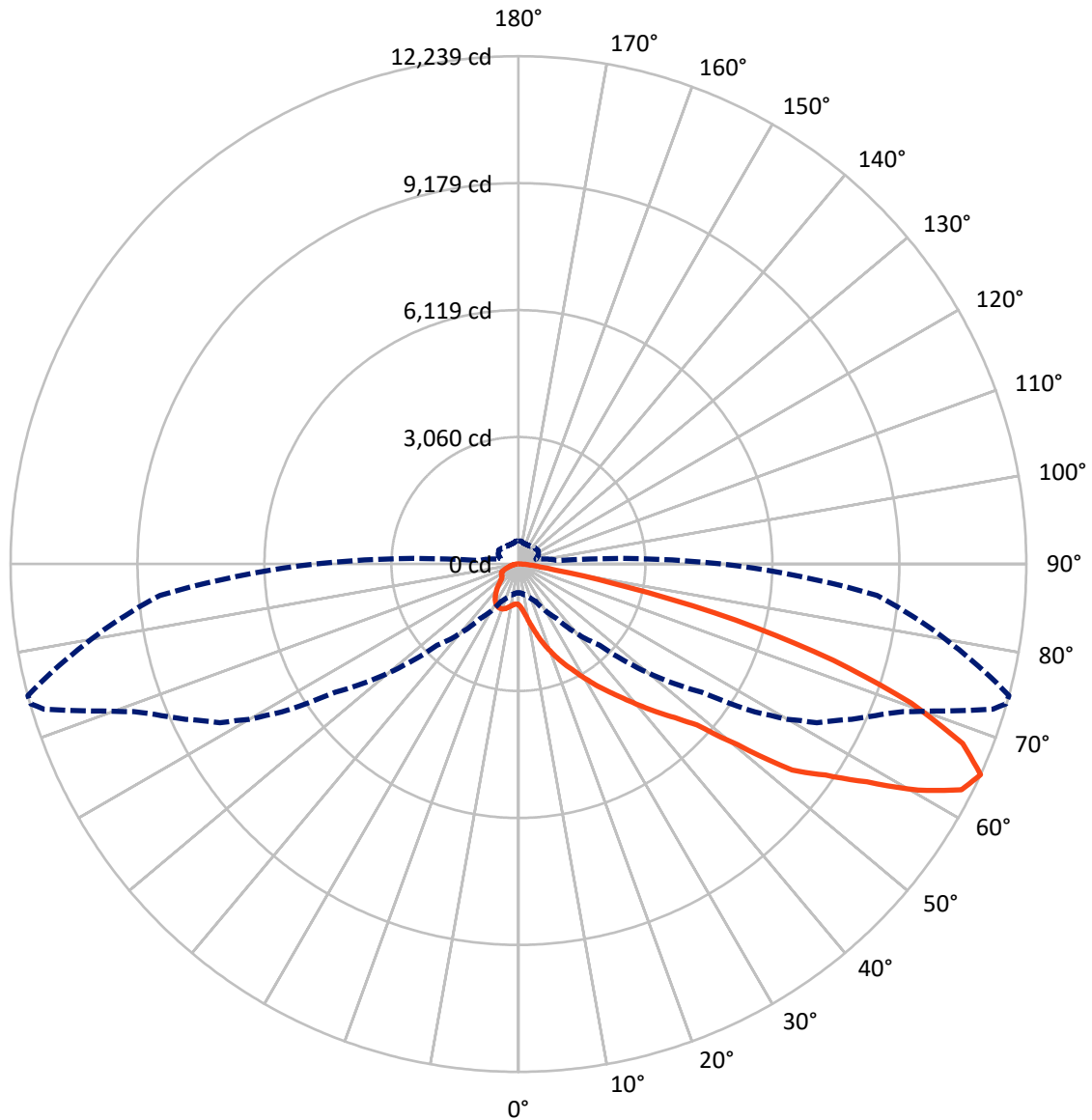
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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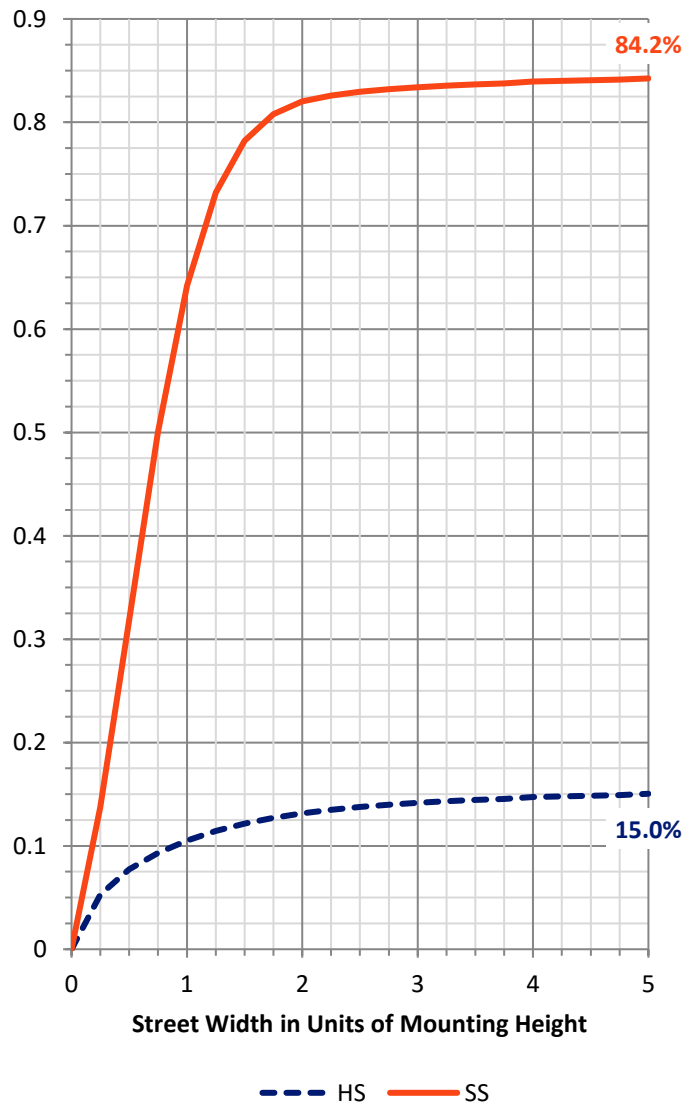
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1864.4	0.0	1864.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10228.4	0.0	10228.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	12092.8	0.0	12092.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.0
10°-20°	474.6	3.9
20°-30°	973.8	8.1
30°-40°	1638.3	13.5
40°-50°	2263.7	18.7
50°-60°	2825.8	23.4
60°-70°	2542.9	21.0
70°-80°	1066.0	8.8
80°-90°	186.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12092.8	100.0
0°-180°	12092.8	100.0

Coefficient of Utilization



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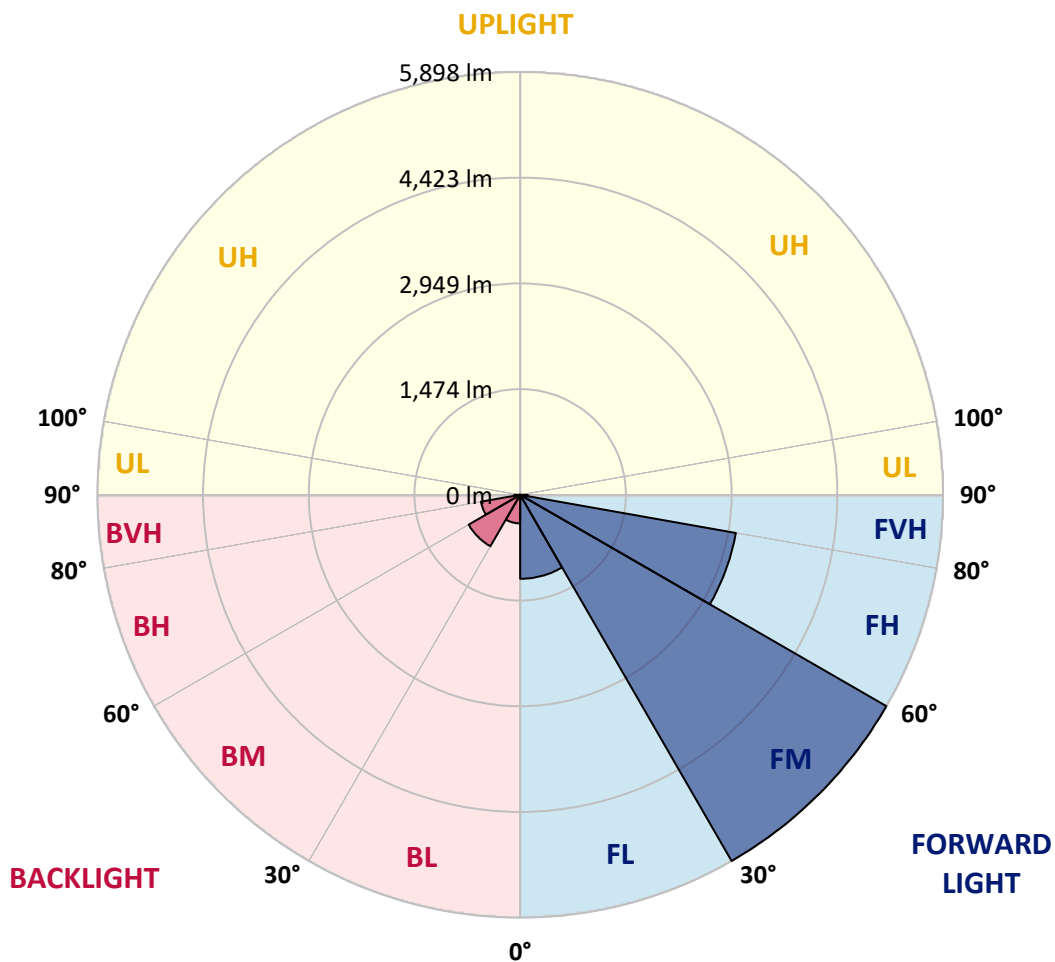
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1171.2	9.7			
FM	(30°-60°)	5898.0	48.8			
FH	(60°-80°)	3054.6	25.3			G2/5000
FVH	(80°-90°)	104.7	0.9			G2/225
BL	(0°-30°)	398.7	3.3	B1/500		
BM	(30°-60°)	829.9	6.9	B1/1000		
BH	(60°-80°)	554.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	81.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	1247.7	1234.0	1237.4	1214.6	1186.5	1149.9	1109.2	1108.7	1109.2	1105.3	1090.5
5°	1730.2	1713.6	1707.4	1655.8	1580.4	1472.7	1355.9	1343.3	1338.3	1325.1	1294.6
7.5°	2082.4	2073.2	2063.4	2024.5	1955.8	1835.6	1678.8	1652.0	1626.1	1619.9	1585.5
10°	2309.5	2307.2	2286.6	2276.3	2233.5	2129.3	1976.5	1950.7	1922.6	1912.9	1876.7
12.5°	2489.3	2488.8	2479.0	2481.8	2444.6	2369.1	2237.4	2214.0	2193.3	2163.6	2137.8
15°	2613.4	2614.1	2628.4	2644.4	2638.7	2587.7	2464.1	2453.8	2436.1	2415.5	2385.1
17.5°	2715.3	2718.2	2733.2	2762.3	2793.8	2789.7	2692.0	2683.2	2667.8	2639.8	2623.8
20°	2945.5	2956.3	2927.8	2927.8	2931.2	2946.6	2899.6	2892.8	2871.1	2856.3	2843.6
22.5°	3334.1	3346.6	3282.0	3216.2	3151.6	3104.6	3057.7	3066.3	3051.4	3041.0	3033.5
25°	3838.9	3848.7	3744.0	3632.8	3501.2	3329.5	3213.3	3208.1	3200.1	3193.8	3190.4
27.5°	4314.0	4318.1	4219.0	4056.4	3903.7	3656.9	3371.2	3365.1	3355.3	3343.2	3332.9
30°	4720.5	4719.2	4617.4	4462.3	4298.6	4025.6	3611.1	3591.7	3563.0	3530.3	3505.2
32.5°	5072.4	5070.8	4959.2	4798.2	4626.5	4390.7	3939.6	3899.6	3854.9	3791.4	3753.1
35°	5349.4	5348.2	5243.0	5075.2	4878.3	4734.6	4316.3	4267.0	4210.4	4125.1	4066.2
37.5°	5454.1	5454.1	5395.2	5280.7	5106.8	5008.3	4734.6	4675.1	4614.6	4517.8	4451.5
40°	5393.0	5394.1	5406.7	5385.5	5300.8	5225.3	5125.1	5089.5	5037.5	4950.5	4881.2
42.5°	5187.4	5193.8	5277.4	5379.8	5422.1	5410.1	5471.3	5455.3	5418.7	5351.7	5296.8
45°	4927.1	4946.4	5038.1	5231.5	5455.9	5569.9	5761.5	5763.3	5756.3	5720.3	5677.9
47.5°	4569.3	4596.7	4717.5	4979.1	5377.0	5724.9	6056.4	6071.9	6086.0	6062.7	6043.2
50°	4094.3	4126.9	4307.7	4654.6	5216.1	5885.8	6613.2	6683.1	6748.3	6740.3	6753.5
52.5°	3585.3	3623.8	3845.3	4231.6	4939.6	5923.0	6969.3	7083.1	7197.1	7290.4	7389.4
55°	3126.3	3105.7	3327.2	3734.3	4485.1	5755.4	7289.2	7426.6	7553.7	7668.1	7786.1
57.5°	2504.1	2537.9	2760.0	3162.5	3883.6	5281.9	7509.7	7710.5	7893.0	8082.6	8249.7
60°	1830.4	1864.3	2105.2	2513.8	3230.6	4564.2	7341.3	7645.8	7938.3	8228.6	8455.1
62.5°	1105.3	1130.4	1342.7	1732.0	2491.0	3713.1	6591.6	6991.0	7421.4	7768.4	8115.7
65°	688.0	702.4	780.7	994.9	1599.8	2772.0	5385.5	5821.0	6284.7	6724.9	7086.0
67.5°	563.1	568.4	582.7	628.5	878.6	1807.6	4008.3	4394.1	4812.6	5238.3	5640.2
70°	506.6	503.1	503.1	505.9	563.1	971.8	2624.4	2875.7	3224.1	3594.6	3962.1
72.5°	457.3	454.0	447.5	439.0	459.7	593.1	1356.5	1546.1	1797.2	2126.4	2478.5
75°	411.0	406.5	398.9	388.1	402.4	447.5	651.5	731.0	853.4	1028.6	1224.8
77.5°	362.8	357.2	350.2	342.3	360.6	348.1	381.8	410.3	457.3	513.4	587.2
80°	308.5	303.4	301.1	297.1	318.8	265.0	269.6	287.4	314.8	345.2	379.4
82.5°	241.6	241.6	250.6	252.5	276.5	190.6	201.5	216.9	231.3	247.3	263.4
85°	159.1	160.3	191.2	203.1	218.1	128.2	151.2	156.2	167.8	176.8	183.8
87.5°	49.8	53.8	116.8	129.4	125.4	72.8	92.7	95.0	103.0	109.4	115.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	1090.5	1083.5	1077.2	1076.7	1072.0	1065.7	1068.1	1058.4	1058.9	1053.7	1048.1
5°	1282.2	1277.6	1254.7	1248.4	1231.1	1220.3	1218.6	1195.7	1192.8	1179.7	1165.5
7.5°	1558.0	1543.1	1511.0	1495.6	1466.5	1444.7	1434.4	1404.1	1389.1	1354.9	1339.4
10°	1847.0	1828.2	1788.6	1767.0	1738.8	1703.9	1685.1	1641.1	1623.9	1592.3	1554.5
12.5°	2114.9	2096.0	2055.4	2038.9	2001.7	1964.5	1943.8	1893.9	1871.7	1821.4	1791.5
15°	2362.8	2343.9	2308.5	2291.2	2254.0	2223.7	2196.3	2146.9	2120.7	2073.7	2034.8
17.5°	2603.2	2583.2	2552.3	2536.8	2500.7	2469.8	2440.1	2393.8	2366.8	2319.9	2284.8
20°	2826.3	2811.5	2789.1	2768.5	2732.6	2704.4	2669.0	2628.9	2590.1	2555.7	2522.5
22.5°	3021.0	3015.3	2991.3	2982.2	2951.2	2927.1	2896.2	2856.7	2828.8	2785.1	2754.4
25°	3188.8	3186.9	3175.6	3172.8	3151.0	3128.1	3121.3	3088.6	3062.9	3024.5	2992.4
27.5°	3332.9	3334.7	3331.9	3339.8	3334.1	3323.8	3324.4	3313.5	3298.7	3266.5	3238.5
30°	3493.1	3484.0	3489.2	3500.7	3504.1	3505.2	3524.1	3530.3	3529.4	3508.2	3494.3
32.5°	3719.9	3698.1	3678.1	3676.5	3687.8	3692.5	3724.5	3741.1	3755.4	3760.6	3762.8
35°	4009.0	3965.5	3923.6	3901.2	3881.8	3887.1	3910.0	3936.8	3968.4	3990.0	4015.9
37.5°	4372.9	4319.7	4245.8	4193.3	4180.2	4151.4	4166.3	4187.4	4218.4	4252.1	4296.9
40°	4814.2	4733.6	4650.5	4580.7	4543.0	4490.3	4489.6	4485.7	4504.6	4536.1	4599.1
42.5°	5238.9	5167.4	5079.2	5006.1	4956.8	4886.4	4872.0	4834.9	4843.5	4870.9	4932.1
45°	5636.8	5577.8	5524.0	5439.2	5397.6	5321.4	5297.3	5253.3	5228.7	5241.3	5302.5
47.5°	6022.0	5984.1	5928.2	5873.2	5841.0	5773.0	5742.1	5710.6	5679.2	5677.9	5742.1
50°	6773.0	6752.9	6686.5	6629.3	6644.8	6561.2	6566.3	6481.6	6520.0	6524.5	6659.0
52.5°	7478.7	7548.5	7597.8	7657.8	7696.8	7704.3	7729.9	7768.4	7814.6	7906.3	8031.0
55°	7882.7	7970.4	8021.3	8067.0	8142.6	8158.6	8201.6	8252.5	8293.2	8396.2	8502.1
57.5°	8363.0	8525.5	8604.5	8677.3	8779.1	8818.0	8889.5	8945.1	8997.9	9119.8	9248.0
60°	8658.9	8857.0	9017.8	9132.9	9260.4	9352.1	9460.3	9547.2	9671.0	9816.9	10008.0
62.5°	8423.6	8714.5	8928.0	9125.4	9298.9	9474.1	9629.1	9791.6	9979.5	10200.3	10496.9
65°	7486.7	7782.6	8148.3	8353.2	8582.9	8852.9	9088.8	9352.1	9607.9	9929.7	10368.1
67.5°	6027.2	6371.1	6782.2	6988.8	7252.6	7554.2	7818.7	8140.4	8439.1	8828.9	9370.9
70°	4344.4	4789.1	5134.8	5350.6	5658.6	5969.3	6224.6	6598.9	6846.3	7245.8	7806.1
72.5°	2750.9	3101.7	3525.3	3797.1	4070.8	4385.5	4646.6	4969.5	5200.1	5564.1	6071.9
75°	1479.0	1737.7	2109.8	2367.9	2661.0	2930.0	3235.7	3451.9	3622.5	3910.5	4322.6
77.5°	693.1	850.5	1038.9	1237.4	1436.1	1643.3	1844.8	2019.8	2093.2	2258.0	2501.3
80°	420.6	471.6	526.5	587.9	670.9	737.8	826.5	890.6	895.3	947.4	1021.7
82.5°	281.0	299.9	316.6	332.0	353.2	369.7	388.6	411.0	420.1	432.2	456.2
85°	191.8	201.0	204.4	214.1	211.8	217.5	224.9	232.4	236.4	235.9	246.7
87.5°	117.9	122.4	124.8	127.1	125.4	123.1	126.5	130.6	131.6	128.2	129.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	1049.2	1044.0	1038.9	1035.4	1034.3	1003.9	990.8	982.1	963.9	949.0	937.0
5°	1157.3	1146.4	1138.0	1127.6	1121.9	1045.2	1017.2	997.7	965.6	946.8	929.6
7.5°	1331.4	1301.0	1283.3	1263.2	1246.0	1107.5	1061.2	1030.8	986.2	961.0	941.6
10°	1528.8	1497.4	1469.3	1438.4	1411.4	1190.6	1123.1	1076.1	1017.2	984.5	958.8
12.5°	1749.2	1718.3	1682.7	1643.3	1609.0	1295.8	1202.0	1135.0	1054.3	1010.9	974.8
15°	2009.6	1955.3	1912.3	1866.5	1826.4	1421.7	1294.2	1201.5	1093.9	1034.8	986.8
17.5°	2251.7	2194.5	2136.1	2096.0	2049.8	1563.2	1386.9	1268.9	1126.5	1050.3	989.0
20°	2488.1	2425.8	2375.4	2321.6	2272.9	1709.7	1485.8	1328.6	1147.7	1050.8	974.8
22.5°	2696.5	2657.5	2601.4	2543.1	2493.9	1856.2	1578.6	1378.9	1155.6	1037.7	949.6
25°	2933.4	2892.3	2823.6	2774.3	2719.3	2005.6	1669.6	1417.7	1151.1	1013.1	910.6
27.5°	3186.5	3140.7	3070.2	3018.8	2952.3	2160.8	1753.2	1445.8	1133.9	973.0	858.6
30°	3450.3	3408.4	3339.3	3287.2	3220.2	2325.1	1846.5	1464.7	1099.5	917.4	798.0
32.5°	3733.6	3698.7	3630.1	3575.7	3504.1	2502.9	1933.5	1470.4	1047.5	851.8	733.7
35°	4002.7	3978.7	3920.8	3869.9	3795.5	2671.3	2025.7	1467.7	985.6	779.5	675.4
37.5°	4305.4	4291.2	4262.5	4197.8	4106.8	2899.6	2136.1	1455.6	910.2	708.0	630.8
40°	4628.2	4629.3	4598.6	4554.3	4469.6	3176.6	2267.9	1432.1	827.7	645.1	590.1
42.5°	4970.0	4987.7	4972.8	4941.3	4860.1	3456.0	2425.2	1403.5	747.5	583.8	550.0
45°	5361.4	5383.3	5406.1	5359.7	5280.7	3824.7	2632.4	1366.2	661.2	532.9	522.5
47.5°	5813.1	5847.3	5868.0	5868.5	5789.5	4281.4	2968.9	1344.0	584.3	498.5	509.3
50°	6766.0	6777.0	6825.6	6910.3	6849.7	5338.5	3556.7	1330.2	532.3	477.4	499.6
52.5°	8139.3	8258.8	8343.0	8337.3	8254.9	6010.0	3880.7	1259.2	501.4	469.4	495.1
55°	8698.5	8847.9	9003.5	9044.8	8980.6	6582.9	4186.9	1188.3	486.5	475.1	496.9
57.5°	9443.7	9695.5	9909.1	9998.9	9906.1	7316.2	4589.9	1151.1	481.9	490.6	507.7
60°	10314.2	10625.6	10906.1	11067.5	11067.5	8158.6	5007.7	1135.5	475.7	513.4	526.0
62.5°	10873.4	11330.9	11754.3	11990.8	11983.8	8745.4	5193.2	1082.9	461.3	529.5	551.2
65°	10875.8	11419.6	11959.2	12224.9	12238.6	8673.2	4887.0	956.4	435.0	531.7	576.4
67.5°	9969.1	10548.9	11178.0	11475.0	11543.7	7984.1	4230.5	786.5	392.1	508.8	585.5
70°	8419.8	8985.7	9627.9	9920.0	10041.9	6806.2	3407.5	606.1	337.1	458.5	566.7
72.5°	6633.4	7188.4	7635.6	7849.0	7944.0	5202.4	2481.3	457.9	276.5	386.4	515.6
75°	4696.3	5113.1	5350.6	5398.2	5412.9	3136.1	1507.6	340.5	227.8	300.6	435.6
77.5°	2650.7	2829.2	2809.8	2831.0	2654.8	1210.6	656.5	243.8	187.7	228.3	337.8
80°	1034.8	1066.8	1002.1	982.1	900.9	450.5	289.7	170.0	149.9	172.8	236.4
82.5°	456.2	471.2	457.3	460.8	440.7	232.4	173.5	123.1	114.4	126.5	156.8
85°	251.3	255.8	254.7	262.1	251.3	92.7	82.5	75.5	80.0	85.9	100.7
87.5°	122.4	123.6	119.7	125.9	121.9	46.9	40.7	42.8	46.9	48.1	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	928.4	923.7	924.4	923.3	920.9	920.9
5°	920.5	915.8	915.8	914.7	911.8	912.4
7.5°	928.4	920.9	918.1	914.0	910.2	910.2
10°	937.6	924.4	916.5	909.5	904.4	904.4
12.5°	944.4	923.7	910.6	901.4	896.4	896.4
15°	946.8	919.9	901.4	890.6	886.1	885.5
17.5°	939.3	904.4	882.0	869.4	863.7	862.1
20°	916.5	876.2	849.3	835.2	827.1	824.3
22.5°	882.0	836.2	804.7	789.9	779.5	777.8
25°	833.9	784.7	753.8	739.6	733.7	732.1
27.5°	777.8	732.1	705.8	696.5	691.4	690.8
30°	724.7	685.6	666.3	659.4	653.1	651.9
32.5°	674.8	650.3	642.7	633.0	618.2	616.4
35°	639.4	637.1	631.9	610.2	591.9	586.8
37.5°	617.6	638.8	612.5	569.5	556.3	555.2
40°	605.0	621.0	575.9	560.9	562.1	560.9
42.5°	576.4	593.1	576.9	570.1	574.6	575.9
45°	547.7	566.1	585.5	580.9	591.9	591.9
47.5°	531.7	559.3	584.9	584.9	601.0	606.7
50°	513.4	553.4	575.9	583.8	596.5	591.9
52.5°	512.3	543.7	562.7	576.9	582.7	577.5
55°	514.0	535.7	549.6	565.6	572.4	572.9
57.5°	516.3	531.2	540.3	547.7	568.4	568.4
60°	522.0	527.1	532.3	536.3	563.1	563.7
62.5°	531.2	523.2	522.0	526.0	560.4	558.0
65°	545.5	517.5	508.8	512.8	557.5	550.7
67.5°	564.9	508.8	492.2	495.1	555.2	540.3
70°	582.7	495.1	471.6	468.7	533.5	507.2
72.5°	584.3	479.1	443.0	434.4	463.6	438.5
75°	555.8	468.1	411.6	386.4	382.9	379.4
77.5°	500.9	461.9	375.0	335.3	328.5	330.8
80°	419.0	438.5	330.8	284.0	321.1	317.1
82.5°	313.1	386.9	281.0	251.3	250.6	221.5
85°	174.0	301.7	229.0	188.4	131.1	127.1
87.5°	48.7	167.8	160.3	106.4	72.8	75.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)